# RADIOMODEM

# D2 Series

## General description

The D2 Series (RT) are radiomodems with RS232 and RS485 serial connections, configurable by software, either remotely or locally, on the fly by DTE.
The devices are complete with one optically isolated digital input and one relay output that can be used for radio transmission of signal and alarms.
Four operating modes that are software programmable: mirror point to point, point to multipoint, broadcasting, and digipeater which allows multipath data routes, to ensure data delivery.
The Low power design along with the power saving function, allows for extended battery life.
Robust construction with surface mounted components, ensure highly-stable electronics. Enclosure options allow the D2 Series to be located indoors or outdoors.
Optional antenna configurations can improve radio transmissions where radio coverage is critical

**FOR TECHNICAL SPECIFICATION, INSTALLATION AND CONFIGURATION INSTRUCTION AND MORE DETAILS DOWNLOAD FROM OUR WEB SITE WWW.EREWIRLESS.COM THE D2 USER MANUAL**

## Technical support

Our website www.erewirless.com contains many useful information, user guides and configuration software and technical documents always update to the latest version.
If you have technical problems or cannot find the required information in the provided documents, contact our Technical Support by email at info@erewireless.com or by phone +39 0385 48139

## Disclaimer

All rights to this manual are owned solely by ERE Srl (referred to in this user guide as ERE).
All rights reserved. The copying of this manual (without the written permission from the owner) by printing, copying, recording or by any other means, or the full or partial translation of the manual to any other language, including all programming languages, using any electrical, mechanical, magnetic, optical, manual or other methods or devices is forbidden.
ERE reserves the right to change the technical specifications or functions of its products, or to discontinue the manufacture of any of its products or to discontinue the support of any of its products, without any written announcement and urges its customers to ensure, that the information at their disposal is valid.
ERE software and programs are delivered "as is". The manufacturer does not grant any kind of warranty including guarantees on suitability and applicability to a certain application. Under no circumstances is the manufacturer or the developer of a program responsible for any possible damages caused by the use of a program. The names of the programs as well as all copyrights relating to the programs are the sole property of ERE. Any transfer, licensing to a third party, leasing, renting, transportation, copying, editing, translating, modifying into another programming language or reverse engineering for any intent is forbidden without the written consent of ERE.

## Restrictions on use

ERE PRODUCTS HAVE NOT BEEN DESIGNED, INTENDED NOR INSPECTED TO BE USED IN ANY LIFE SUPPORT RELATED DEVICE OR SYSTEM RELATED FUNCTION NOR AS A PART OF ANY OTHER CRITICAL SYSTEM INCLUDED AERONAUTICAL / AEROSPACE APPLICATION.
ERE PRODUCTS ARE GRANTED NO FUNCTIONAL WARRANTY IF THEY ARE USED IN ANY OF THE APPLICATIONS MENTIONED.

ERE D2 (RT) Series radio modems have been designed to operate on frequency ranges with permission of frequency management authority. The user of a radio modem must take care that the device is not operated without the permission of the local authorities on frequencies other than those specifically reserved and intended for use without a specific permit.

## Warnings and safety instructions

-Read these safety instructions carefully before using the product:
-Warranty will be void, if the product is used in any way that is in contradiction with the instructions given in this manual, or if the radio modem housing has been opened or tampered with.
-The radio modem is only to be operated at frequencies allocated by local authorities, and without exceeding the given maximum allowed output power ratings and duty cycle. ERE and its distributors are not responsible, if any products manufactured by it are used in unlawful ways.
-The devices is complies with Directive 1999/5/EC as describe in our declaration of conformity above
-The devices mentioned in this manual are to be used only according to the instructions described in this manual. Faultless and safe operation of the devices can be guaranteed only if the transport, storage, operation and handling of the devices is appropriate. This also applies to the maintenance of the products.
-Do not install the equipment close to a heat source or in damp conditions and direct sunlight is also to be avoided.
-The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.
-The device must not be exposed directly to dusty environment.
-Maintenance should only be carried out by qualified persons.
-For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.
-Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits

## Disposal of waste by users in private households within the European Union

According to Directive 2012/19/EU of the European Union on waste electrical and electronic equipment (WEEE) this product must not be disposed off with your other household waste, it is your responsibility to dispose of your waste by taking it to a collection point designated for the recycling of electrical and electronic appliances.
Separate collection and recycling of your waste at the time of disposal will contribute to conserving natural resources and guarantee recycling that respects the environment and human health.
For further information concerning your nearest recycling centre, please contact your nearest local authority/town hall offices.

## Conformity declaration

**English:** Hereby, ERE S.r.l. declares that this D2 SERIES is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**Finnish:** ERE S.r.l. vakuuttaa täten että D2 SERIES tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

**Dutch:** Hierbij verklaart ERE S.r.l. dat het D2 SERIES in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Bij deze verklaart ERE S.r.l. dat deze D2 SERIES voldoet aan de essentiële eisen en aan de overige relevante bepalingen van Richtlijn 1999/5/EC.

**French:** Par la présente ERE S.r.l. déclare que l'appareil D2 SERIES est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Par la présente, ERE S.r.l. déclare que ce D2 SERIES est conforme aux exigences essentielles et aux autres dispositions de la directive 1999/5/CE qui lui sont applicables

**Swedish:** Härmed intygar ERE S.r.l. att denna D2 SERIES står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

**Danish:** Undertegnede ERE S.r.l. erklærer herved, at følgende udstyr D2 SERIES overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF

**German:** Hiermit ERE S.r.l., dass sich dieses D2 SERIES in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi). Hiermit erklärt ERE S.r.l. die Übereinstimmung des Gerätes D2 SERIES mit den grundlegenden Anforderungen und den anderen relevanten Festlegungen der Richtlinie 1999/5/EG. (Wien)

**Greek:** ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ ERE S.r.l. ΔΗΛΩΝΕΙ D2 SERIES ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ

**Italiano:** Con la presente ERE S.r.l. dichiara che D2 SERIES è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

**Spanish:** Por medio de la presente ERE S.r.l. declara que el D2 SERIES cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE

**Portuguese:** ERE S.r.l. declara que este D2 SERIES está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

# Declaration of Conformity

We, the undersigned,

| | |
|---|---|
| Company | ERE S.r.l. |
| Address, City | Via Ermanno Ge, 9/11 - 27049 Stradella (PV) |
| Country | Italy |
| Phone number | +39 0385 48139 |
| Fax number | +39 0385 40288 |

certify and declare under our sole responsibility that the following equipment:

| | |
|---|---|
| Product description / Intended use | 156-174 MHz and 390-470 MHz Radiomodem for commercial and light-industrial use |
| EU / EFTA member states intended for use | **EU**: all members<br>**EFTA**: all members |
| Member states with restrictive use | **EU**: all members<br>**EFTA**: all members |
| Manufacturer | ERE S.r.l. \| I-27049 Stradella (PV) |
| Brand name | ERE |
| Type/Model | D2 SERIES |

is tested to and conforms with the essential requirements for protection of health and the safety of the user and any other person and Electromagnetic Compatibility, as included in following standards:

| *Art. of Directive* | *Standard* | *Date of issue of the standard* |
|---|---|---|
| 3.1(a) Health | EN 50401 | 2006 + A1(2011) |
| 3.1(a) Safety | EN 60950-1 | 2006 + A11:2009 + A1:2010 +A12:2011 +AC:2011 |
| 3.1(b) EMC | EN 301 489-1 | V1.9.2 (2011-09) |
| 3.1(b) EMC | EN 301 489-3 | V1.6.1 (2013-08) |

and is tested to and conforms with the essential radio test suites so that it effectively uses the frequency spectrum allocated to terrestrial/space radio communication and orbital resources so to as to avoid harmful interference, as included in following standards:

| *Art. of Directive* | *Standard* | *Date of issue of the standard* |
|---|---|---|
| *3.2 Spectrum* | *EN 300 220-2* | *V2.4.1 (2012-05)* |

and therefore complies with the essential requirements and provisions of Art. 3.3 too, where applicable, of the **Directive 1999/5/EC** of the European Parliament and of the council of March 9, 1999 on Radio equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity and with the provisions of Annex II.

CE

| | |
|---|---|
| TCF reference nr. | D2 SERIES Rev.0 |
| Date | February 18, 2015 |
| Sign | |
| Name and position | Giovanni Soldo - CEO |